

SOLAR ASSEMBLY MAINTENANCE RECOMMENDATIONS

In general ELTEC's solar powered flashing beacon systems are maintenance free. Therefore only general checks should be performed once per year unless issues arise concerning the operation of the system.

The solar panel is expected to last a minimum of 20 years and the battery is expected to last at least 5 years. The solar panel is warranted for 20 years and the battery is pro-rated warranted for 5 years. Most batteries in solar applications last between 7 – 10 years.

Upon each visit to the solar system or once a year, the following checks are recommended and should be performed on a bright sunny day.

- Ensure all electrical connections are tight and free of residue or foreign matter
- Check readings on the ProStar solar charge controller. The battery voltage should be greater than 11.4 volts and may read up to 14.3 volts. A normal system should display voltage greater than 12 volts. Solar amps should be consistent with the size of the solar panel. For school zone systems the solar amps will be around 3 amps unless the batteries are fully charged in which case you may see a much smaller reading for solar amps.
- Turn on the flashing beacons using the toggle switch on the back pane. Verify that the beacons are flashing. The ProStar should be reading approximately 0.2 to 0.3 amps for a single beacon system and 0.4 to 0.5 amps for a dual beacon system.
- Inspect the LEDs for burned out LEDs.

Contact ELTEC's technical support should you have questions.

Phone: 903-938-1901 or 800-227-1734